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1 Statistical timing analysis using levelized covariance propagation considering systematic and random variations of process parameters

Kunhyuk Kang, Bipul C. Paul, Kaushik Roy

October 2006 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 11 Issue 4

Publisher: ACM Press

Full text available: pdf(647.11 KB) Additional Information: full citation, abstract, references, index terms

Variability in process parameters is making accurate timing analysis of nano-scale integrated circuits an extremely challenging task. In this article, we propose a new algorithm for statistical static timing analysis (SSTA) using levelized covariance propagation (LCP). The algorithm simultaneously considers the effect of die-to-die variations in process parameters as well as within-die variation, including systematic and random variations. In order to efficiently handle complicated process varia ...

Keywords: Process variation, spatial correlation, statistical timing analysis

2 Artificial life, evolutionary robotics, adaptive behavior: papers: A method for parameter calibration and relevance estimation in evolutionary algorithms

Volker Nannen, A.E. Eiben

July 2006 **Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06**

Publisher: ACM Press

Full text available: pdf(238.68 KB) Additional Information: full citation, abstract, references, index terms

We present and evaluate a method for estimating the relevance and calibrating the values of parameters of an evolutionary algorithm. The method provides an information theoretic measure on how sensitive a parameter is to the choice of its value. This can be used to estimate the relevance of parameters, to choose between different possible sets of parameters, and to allocate resources to the calibration of relevant parameters. The method calibrates the evolutionary algorithm to reach a high perfo ...

Keywords: Kolmogorov complexity, agent-based simulations, evolutionary algorithms, information theory, model selection, parameter control

3 Real world applications: Optimizing parameters of a mobile ad hoc network protocol

with a genetic algorithm
David Montana, Jason Redi
June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**
Publisher: ACM Press
Full text available: pdf(408.51 KB) Additional Information: full citation, abstract, references, index terms

Mobile ad hoc networks are typically designed and evaluated in *generic* simulation environments. However the real conditions in which these networks are deployed can be quite different in terms of RF attentution, topology, and traffic load. Furthermore, specific situations often have a need for a network that is optimized along certain characteristics such as delay, energy or overhead. In response to the variety of conditions and requirements, ad hoc networking protocols are often designed ...

Keywords: ad hoc networks, genetic algorithms, mobile networks, parameter optimization

4 Session F2: VR modeling: geometry and texture: Optimizing the parameters for patch-based texture synthesis
Yiping Wang, Wencheng Wang, Enhua Wu
June 2006 **Proceedings of the 2006 ACM international conference on Virtual reality continuum and its applications VRCIA '06**
Publisher: ACM Press
Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, index terms

Patch-based texture synthesis takes patches of sample textures to produce new textures, and has the fame to run fast and produce textures very efficiently. In its operation, its parameters for synthesis, including the shape and size of patches and the widths of the overlapping regions between adjacent patches, have much impact on its synthesis efficiency. However, less discussion can be found on these impacts. This paper presents novel methods to measure the impacts by these parameters, and then ...

Keywords: adaptive optimization, patch-based texture synthesis, texture features

5 Timing and variability: Non-gaussian statistical parameter modeling for SSTA with confidence interval analysis
Lizheng Zhang, Jun Shao, Charlie Chung-Ping Chen
April 2006 **Proceedings of the 2006 international symposium on Physical design ISPD '06**
Publisher: ACM Press
Full text available: pdf(239.69 KB) Additional Information: full citation, abstract, references, index terms

Most of the existing statistical static timing analysis (SSTA) algorithms assume that the process parameters of have been given with 100% confidence level or zero errors and are preferable Gaussian distributions. These assumptions are actually quite questionable and require careful attention.In this paper, we aim at providing solid statistical analysis methods to analyze the measurement data on testing chips and extract the statistical distribution, either Gaussian or non-Gaussian which could be ...

6 Research track papers: Towards parameter-free data mining
Eamonn Keogh, Stefano Lonardi, Chotirat Ann Ratanamahatana
August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**
Publisher: ACM Press
Additional Information:

Full text available: pdf(770.63 KB) full citation, abstract, references, citings, index terms

Most data mining algorithms require the setting of many input parameters. Two main dangers of working with parameter-laden algorithms are the following. First, incorrect settings may cause an algorithm to fail in finding the true patterns. Second, a perhaps more insidious problem is that the algorithm may report spurious patterns that do not really exist, or greatly overestimate the significance of the reported patterns. This is especially likely when the user fails to understand the role of par ...

Keywords: anomaly detection, clustering, parameter-free data mining

7 Reducing parameter uncertainty for stochastic systems

Szu Hui Ng, Stephen E. Chick

January 2006 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 16 Issue 1

Publisher: ACM Press

Full text available: pdf(571.58 KB) Additional Information: full citation, abstract, references, index terms

The design of many production and service systems is informed by stochastic model analysis. But the parameters of statistical distributions of stochastic models are rarely known with certainty, and are often estimated from field data. Even if the mean system performance is a known function of the model's parameters, there may still be uncertainty about the mean performance because the parameters are not known precisely. Several methods have been proposed to quantify this uncertainty, but data sa ...

Keywords: Bayesian statistics, Stochastic simulation, parameter estimation, uncertainty analysis

8 A comparison of spatial query processing techniques for native and parameter spaces

Jack Orenstein

May 1990 **ACM SIGMOD Record , Proceedings of the 1990 ACM SIGMOD international conference on Management of data SIGMOD '90**, Volume 19 Issue 2

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terms

Spatial queries can be evaluated in native space or in a parameter space. In the latter case, data objects are transformed into points and query objects are transformed into search regions. The requirement for different data and query representations may prevent the use of parameter-space searching in some applications. Native-space and parameter-space searching are compared in the context of a z order-based spatial access method. Experimental results show that when there is a single query ...

9 Tracking time-varying parameters in software systems with extended Kalman filters

Tao Zheng, Jinmei Yang, Murray Woodside, Marin Litoiu, Gabriel Iszlai

October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**

Publisher: IBM Press

Full text available: pdf(310.15 KB) Additional Information: full citation, abstract, references, index terms

Autonomic control of a service system can take advantage of a performance model only if a way can be found to track the changes in the system. A Kalman Filter provides a framework for integrating various kinds of measured data, and for tracking changes in any time-varying system. This work evaluates the effectiveness of such a filter in tracking

changes in performance parameters of a software system that occur at different rates and amplitudes. The time-varying system is a Web application deploy ...

10 The bivariate beta distribution: comparison of Monte Carlo generators and evaluation of parameter estimates

James H. Macomber, Buddy L. Myers
January 1983 **ACM SIGSIM Simulation Digest**, Volume 14 Issue 1-4
Publisher: ACM Press
Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references

The bivariate and multivariate beta distributions may provide appropriate stochastic models for a number of processes, particularly those involving random proportions. Researchers may therefore find it necessary to estimate the parameters of such distributions or generate Monte Carlo samples with known parameter values. Two possible generating technique for beta bivariates are presented and compared in this paper. Estimating equations for the three parameters of the bivariate beta distribution a ...

11 PSGEA contributions: Parameter sweeps for exploring GP parameters

Michael E. Samples, Jason M. Daida, Matt Byom, Matt Pizzimenti
June 2005 **Proceedings of the 2005 workshops on Genetic and evolutionary computation GECCO '05**
Publisher: ACM Press
Full text available: pdf(486.24 KB) Additional Information: full citation, abstract, references, index terms

This paper describes our procedure and a software application for conducting large parameter sweep experiments in genetic and evolutionary computation research. Both procedure and software allows a researcher to examine multivariate nonlinearities that are common in genetic and evolutionary computation. Experiments of this nature are well suited to distributed computing environments (such as Grids and clusters) and we present an automated system for conducting parameter sweep experiments on hete ...

Keywords: data reduction, distributed computation, evolutionary computation, experiment management, parameter sweep

12 Type-dependent parameter inference

Gordon V. Cormack, Andrew K. Wright
June 1990 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1990 conference on Programming language design and implementation PLDI '90**, Volume 25 Issue 6
Publisher: ACM Press
Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references, citings, index terms

An algorithm is presented to infer the type and operation parameters of polymorphic functions. Operation parameters are named and typed at the function definition, but are selected from the set of overloaded definitions available wherever the function is used. These parameters are always implicit, implying that the complexity of using a function does not increase with the generality of its type.

13 Interval parameters for capturing uncertainties in an EJB performance model

Johannes Lüthi, Catalina M. Lladó
June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '01**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: Additional Information:

pdf(932.31 KB) full citation, abstract, citings

Exact as well as approximate analytical solutions for quantitative performance models of computer systems are usually obtained by performing a series of arithmetical operations on the input parameters of the model. However, especially during early phases of system design and implementation, not all the parameter values are usually known exactly. In related research contributions, intervals have been proposed as a means to capture parameter uncertainties. Furthermore, methods to adapt existing so ...

Keywords: distributed systems, enterprise JavaBeans, interval parameters, parameter uncertainties, performance models, queueing

14 Relationship between performance parameters for transport and network services

K. S. Raghunathan, J. A. Barchanski, G. V. Bochmann

April 1983 **ACM SIGCOMM Computer Communication Review , Proceedings of the symposium on Communications Architectures & Protocols COMM '83**, Volume 13 Issue 2

Publisher: ACM Press

Full text available: pdf(419.14 KB) Additional Information: full citation, abstract, references

Various performance parameters are defined which characterize the quality of service offered by a layer of the OSI model. In particular the parameters for the Transport and Network are considered. The set of parameters are classified into:

i) Connection related parameters; and ii) Access point related parameter;

We further make an analysis of the relation between the parameters of the service provided by the Transport layer and the parameters of the Network service used by the T ...

Keywords: OSI reference model, Performance analysis, Performance parameters, Protocols, Quality of service, Transport protocol, Transport service

15 Research session: query optimization #2: Optimizing nested queries with parameter sort orders

Ravindra Guravannavar, H. S. Ramanujam, S. Sudarshan

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: pdf(200.19 KB) Additional Information: full citation, abstract, references, index terms

Nested iteration is an important technique for query evaluation. It is the default way of executing nested subqueries in SQL. Although decorrelation often results in cheaper non-nested plans, decorrelation is not always applicable for nested subqueries. Nested iteration, if implemented properly, can also win over decorrelation for several classes of queries. Decorrelation is also hard to apply to nested iteration in user-defined SQL procedures and functions. Recent research has proposed evaluati ...

16 Optional, repeatable, and varying type parameters

Gary Ford, Brian Hansche

February 1982 **ACM SIGPLAN Notices**, Volume 17 Issue 2

Publisher: ACM Press

Full text available: pdf(909.83 KB) Additional Information: full citation, abstract, references, citings

Parameter passing mechanisms are developed for optional, repeatable, and varying type

parameters. For optional parameters, a programmer-defined default value is passed when the actual parameter is not present; in addition, the called procedure may determine whether the actual parameter is present. An arbitrary number of actual parameters may be passed by binding them to an array-like structure in the called procedure. Syntax similar to Algol 68's union type is proposed to allow passing parameter ...

17 Analog Circuit Sizing Using Adaptive Worst-Case Parameter Sets

R. Schwencker, F. Schenkel, M. Pronath, H. Graeb

March 2002 **Proceedings of the conference on Design, automation and test in Europe**

Publisher: IEEE Computer Society

Full text available: pdf(224.71 KB) Publisher Site Additional Information: full citation, abstract

In this paper, a method for nominal design of analog integrated circuits is presented that includes process variations and operating ranges by worst-case parameter sets.These sets are calculated adaptively during the sizing process based on sensitivity analyses. The method leads to robust designs with high parametric yield, while being muchmore efficient than design centering methods.

18 Cloth & deformable bodies: Estimating cloth simulation parameters from video

Kiran S. Bhat, Christopher D. Twigg, Jessica K. Hodgins, Pradeep K. Khosla, Zoran Popović, Steven M. Seitz

July 2003 **Proceedings of the 2003 ACM SIGGRAPH/Eurographics symposium on Computer animation SCA '03**

Publisher: Eurographics Association

Full text available: pdf(7.33 MB) Additional Information: full citation, abstract, references, citings

Cloth simulations are notoriously difficult to tune due to the many parameters that must be adjusted to achieve the look of a particular fabric. In this paper, we present an algorithm for estimating the parameters of a cloth simulation from video data of real fabric. A perceptually motivated metric based on matching between folds is used to compare video of real cloth with simulation. This metric compares two video sequences of cloth and returns a number that measures the differences in their fo ...

19 The bivariate beta distribution: Comparison of Monte Carlo generators and evaluation of parameter estimates

James H. Macomber, Buddy L. Myers

January 1978 **Proceedings of the 10th conference on Winter simulation - Volume 1**

Publisher: IEEE Press

Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, references, index terms

The bivariate and multivariate beta distributions may provide appropriate stochastic models for a number of processes, particularly those involving random proportions. Researchers may therefore find it necessary to estimate the parameters of such distributions or generate Monte Carlo samples with known parameter values. Two possible generating techniques for beta bivariates are presented and compared in this paper. Estimating equations for the three parameters of the bivariate beta distribu ...

20 Adaptive QoS parameters approach to modeling Internet performance

Shin-Jer Yang, Hung-Cheng Chou

January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(139.90 KB) Additional Information: full citation, abstract, references, index terms

Due to the recent advances in Internet technologies and applications, the issue of Quality of Service (QoS) is more essential to Internet performance. In this paper, we address and

discuss the influence factors and also finalize the QoS parameters for Internet performance. Then we present the simulation procedure for monitoring the performance evaluation and propose the algorithm for tuning the performance value. Based on simulation results and performance analysis, we can tune and adjust possib ...

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IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

Display Format: Citation Citation & Abstract

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1. **An efficient modeling approach for substrate noise coupling analysis**
   Ozis, D.; Mayaram, K.; Fiez, T.;
   Circuits and Systems, 2002. ISCAS 2002. IEEE International Symposium on
   Volume 5, 26-29 May 2002 Page(s):V-237 - V-240 vol.5
   Digital Object Identifier 10.1109/ISCAS.2002.1010684
   AbstractPlus | Full Text: PDF(465 KB) **IEEE CNF**
   Rights and Permissions

2. **A comprehensive geometry-dependent macromodel for substrate noise coupling in heavily processes**
   Ozis, D.; Fiez, T.; Mayaram, K.;
   Custom Integrated Circuits Conference, 2002. Proceedings of the IEEE 2002
   12-15 May 2002 Page(s):497 - 500
   Digital Object Identifier 10.1109/CICC.2002.1012887
   AbstractPlus | Full Text: PDF(451 KB) **IEEE CNF**
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☐	L1	ozis.in. and (scalable with parameter?) and (substrate same model$)	1

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☐ 1. Document ID: US 20040117162 A1

L1: Entry 1 of 1 File: PGPB Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040117162
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040117162 A1

TITLE: Modeling substrate noise coupling using scalable parameters

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ozis, Dicle	Seattle	WA	US
Mayaram, Kartikeya	Corvallis	OR	US
Fiez, Terri	Corvallis	OR	US

US-CL-CURRENT: 703/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

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☐ 1. Document ID: US 20060226510 A1

L2: Entry 1 of 17 File: PGPB Oct 12, 2006

PGPUB-DOCUMENT-NUMBER: 20060226510
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060226510 A1

TITLE: Integrated circuit transformer devices for on-chip millimeter-wave applications

PUBLICATION-DATE: October 12, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Goren; David	Nesher	NY	IL
Pfeiffer; Ullrich R.	Yorktown Heights		US
Sheinman; Benny	Haifa		IL
Shlafman; Shlomo	Haifa		IL

US-CL-CURRENT: 257/531

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 20060107246 A1

L2: Entry 2 of 17 File: PGPB May 18, 2006

PGPUB-DOCUMENT-NUMBER: 20060107246
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060107246 A1

TITLE: Designing method for high-frequency transistor and high-frequency transistor having multi-finger gate

PUBLICATION-DATE: May 18, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nakamura; Akihiro	Kanagawa		JP

US-CL-CURRENT: 716/5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 3. Document ID: US 20060057729 A1

L2: Entry 3 of 17 File: PGPB Mar 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060057729
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060057729 A1

TITLE: Diffraction grating-based encoded element having a substance disposed thereon

PUBLICATION-DATE: March 16, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moon; John A.	Wallingford	CT	US
Putnam; Martin A.	Cheshire	CT	US
Perbost; Michel	Bethany	CT	US

US-CL-CURRENT: 436/57; 359/2, 436/166, 436/524

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 4. Document ID: US 20050227252 A1

L2: Entry 4 of 17 File: PGPB Oct 13, 2005

PGPUB-DOCUMENT-NUMBER: 20050227252
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050227252 A1

TITLE: Diffraction grating-based encoded articles for multiplexed experiments

PUBLICATION-DATE: October 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moon, John A.	Wallingford	CT	US
Putnam, Martin A.	Cheshire	CT	US
Perbost, Michel	Bethany	CT	US
Quinn, John Joseph	Madison	CT	US
Trounstine, Mary	New Haven	CT	US

US-CL-CURRENT: 435/6; 435/287.2, 435/7.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 5. Document ID: US 20050216873 A1

L2: Entry 5 of 17 File: PGPB Sep 29, 2005

PGPUB-DOCUMENT-NUMBER: 20050216873
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050216873 A1

TITLE: Method of checking the layout versus the schematic of multi-fingered MOS transistor layouts using a sub-circuit based extraction

PUBLICATION-DATE: September 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Singh, Raminderpal	Essex Junction	VT	US
Tan, Yue	Poughkeepsie	NY	US
Plouchart, Jean-Oliver	New York	NY	US
Wagner, Lawrence F. JR.	Fishkill	NY	US
Talbi, Mohamed	Poughkeepsie	NY	US
Safran, John M.	Wappingers Falls	NY	US
Wu, Kun	Poughkeepsie	NY	US

US-CL-CURRENT: 716/5; 716/4, 716/8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 6. Document ID: US 20050027501 A1

L2: Entry 6 of 17 File: PGPB Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050027501
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050027501 A1

TITLE: Method and apparatus for modeling devices having different geometries

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chen, Ping	San Jose	CA	US
Liu, Zhihong	Cupertino	CA	US

US-CL-CURRENT: 703/14

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 7. Document ID: US 20040117162 A1

L2: Entry 7 of 17 File: PGPB Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040117162
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040117162 A1

TITLE: Modeling substrate noise coupling using scalable parameters

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ozis, Dicle	Seattle	WA	US
Mayaram, Kartikeya	Corvallis	OR	US
Fiez, Terri	Corvallis	OR	US

US-CL-CURRENT: 703/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 8. Document ID: US 20040095205 A1

L2: Entry 8 of 17 File: PGPB May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040095205
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040095205 A1

TITLE: RF MEMS switch matrix

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schaffner, James H.	Chatsworth	CA	US
Loo, Robert Y.	Agoura Hills	CA	US

US-CL-CURRENT: 333/101; 333/104, 333/105

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 9. Document ID: US 20040000701 A1

L2: Entry 9 of 17 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040000701
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040000701 A1

TITLE: Stand-alone organic-based passive devices

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
White, George E.	Marietta	GA	US
Swaminathan, Madhavan	Marietta	GA	US
Sundaram, Venkatesh	Norcross	GA	US
Dalmia, Sidharth	Alpharetta	GA	US

US-CL-CURRENT: 257/664; 257/642, 257/662, 257/700, 257/E25.011, 257/E27.046, 438/82

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 10. Document ID: US 20020158305 A1

L2: Entry 10 of 17 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020158305
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020158305 A1

TITLE: Organic substrate having integrated passive components

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dalmia, Sidharth	Atlanta	GA	US
Min, Sung Hwan	Atlanta	GA	US
Lee, Seock Hee	Dunwoody	GA	US
Sundaram, Venkatesh	Norcross	GA	US
Ayazi, Farrokh	Atlanta	GA	US
White, George E.	Marietta	GA	US
Swaminathan, Madhavan	Marietta	GA	US
Kim, Woopoung	Chamblee	GA	US

US-CL-CURRENT: 257/531

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 11. Document ID: US 6987307 B2

L2: Entry 11 of 17 File: USPT Jan 17, 2006

US-PAT-NO: 6987307
DOCUMENT-IDENTIFIER: US 6987307 B2

TITLE: Stand-alone organic-based passive devices

DATE-ISSUED: January 17, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040000701 A1	January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
White; George E.	Marietta	GA		US
Swaminathan; Madhavan	Marietta	GA		US
Sundaram; Venkatesh	Norcross	GA		US
Dalmia; Sidharth	Alpharetta	GA		US

US-CL-CURRENT: 257/508; 257/528, 257/531, 257/660, 257/700, 257/759, 257/E25.011, 257/E27.046

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 12. Document ID: US 6888420 B2

L2: Entry 12 of 17 File: USPT May 3, 2005

US-PAT-NO: 6888420
DOCUMENT-IDENTIFIER: US 6888420 B2

TITLE: RF MEMS switch matrix

DATE-ISSUED: May 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schaffner; James H.	Chatsworth	CA		
Loo; Robert Y.	Agoura Hills	CA		

US-CL-CURRENT: 333/101; 333/103

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 13. Document ID: US 6639322 B1

L2: Entry 13 of 17 File: USPT Oct 28, 2003

US-PAT-NO: 6639322
DOCUMENT-IDENTIFIER: US 6639322 B1

TITLE: Flip-chip transition interface structure

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Welstand; Robert B.	San Diego	CA		

US-CL-CURRENT: 257/778; 257/728, 257/758, 257/760, 257/776, 257/E21.503

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 14. Document ID: US 6514783 B1

L2: Entry 14 of 17 File: USPT Feb 4, 2003

US-PAT-NO: 6514783
DOCUMENT-IDENTIFIER: US 6514783 B1

TITLE: Method for determining a layout for a flip-chip transition interface structure

DATE-ISSUED: February 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Welstand; Robert B.	San Diego	CA		

US-CL-CURRENT: 438/31; 257/E21.503, 257/E21.511

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 15. Document ID: US 6469383 B1

L2: Entry 15 of 17 File: USPT Oct 22, 2002

US-PAT-NO: 6469383
DOCUMENT-IDENTIFIER: US 6469383 B1

TITLE: Flip-chip transition interface structure

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Welstand; Robert B.	San Diego	CA		

US-CL-CURRENT: 257/737; 257/738, 257/778

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 16. Document ID: US 6373447 B1

L2: Entry 16 of 17 File: USPT Apr 16, 2002

US-PAT-NO: 6373447
DOCUMENT-IDENTIFIER: US 6373447 B1

TITLE: On-chip antenna, and systems utilizing same

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rostoker; Michael D.	Boulder Creek	CA		
Muthukumaraswamy; Kumaraguru	Santa Clara	CA		

US-CL-CURRENT: 343/895; 257/491, 340/572.7

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 17. Document ID: US 5687355 A

L2: Entry 17 of 17 File: USPT Nov 11, 1997

US-PAT-NO: 5687355
DOCUMENT-IDENTIFIER: US 5687355 A
** See image for Certificate of Correction **

TITLE: Apparatus and method for modeling a graded channel transistor

DATE-ISSUED: November 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Joardar; Kuntal	Chandler	AZ		
Gullapalli; Kiran Kumar	Austin	TX		

US-CL-CURRENT: 716/20; 703/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
SCALABLE	32872
SCALABLES	1
SUBSTRATE	870281
SUBSTRATES	358250
PARAMETER?	0
PARAMETERA	7

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20040117162 A1

L3: Entry 1 of 1 File: PGPB Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040117162
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040117162 A1

TITLE: Modeling substrate noise coupling using scalable parameters

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ozis, Dicle	Seattle	WA	US
Mayaram, Kartikeya	Corvallis	OR	US
Fiez, Terri	Corvallis	OR	US

US-CL-CURRENT: 703/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
SCALABLE	32872
SCALABLES	1
Z	540251
ZES	59
PARAMETER?	0
PARAMETERA	7
PARAMETERB	6
PARAMETERC	1
PARAMETERD	4
PARAMETERE	7
PARAMETERF	1

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20040117162 A1

L4: Entry 1 of 1 File: PGPB Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040117162
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040117162 A1

TITLE: Modeling substrate noise coupling using scalable parameters

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ozis, Dicle	Seattle	WA	US
Mayaram, Kartikeya	Corvallis	OR	US
Fiez, Terri	Corvallis	OR	US

US-CL-CURRENT: 703/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
SCALABLE	32872
SCALABLES	1
Z	540251
ZES	59
PARAMETER?	0
PARAMETERA	7
PARAMETERB	6
PARAMETERC	1
PARAMETERD	4
PARAMETERE	7
PARAMETERF	1